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SWAP\$	0
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SWAPAB	1
SWAPABILITY	16
SWAPABLE	37
SWAPABS	1
SWAPABSMIN1	8
SWAPABSMIN2	8
SWAPAC	1
SWAPACTL	2
(L8 AND SWAP\$).USPT.	2

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Database:

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US Patents Full-Text Database
US OCR Full-Text Database
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JPO Abstracts Database
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IBM Technical Disclosure Bulletins

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Search History

DATE: Monday, August 20, 2007

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DB=USPT; PLUR=YES; OP=OR

L9 L8 and swap\$

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2 L9

<u>L8</u>	L7 and (byte near order)	2	<u>L8</u>
<u>L7</u>	L6 and (description near table)	8	<u>L7</u>
<u>L6</u>	(convert\$ or translat\$) near (data near structure)	643	<u>L6</u>
<u>L5</u>	L4 and (707/\$.cccls.)	5	<u>L5</u>
<u>L4</u>	spanning near index	22	<u>L4</u>
<u>L3</u>	non near spanning near index	0	<u>L3</u>
<u>L2</u>	l1 and bidirectionl\$	0	<u>L2</u>
<u>L1</u>	6792607.pn.	1	<u>L1</u>

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6865614 B2

L8: Entry 1 of 2

File: USPT

Mar 8, 2005

US-PAT-NO: 6865614

DOCUMENT-IDENTIFIER: US 6865614 B2

TITLE: Method for transferring a packed data structure to an unpacked data structure by copying the packed data using pointer

DATE-ISSUED: March 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Matthew	Richardson	TX		
Makphaibulchoke; Thavatchai	Arlington	TX		
Ramesh; Subramanian	Plano	TX		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Hewlett-Packard Development Company, L.P.	Houston	TX			02

APPL-NO: 09/897349 [PALM]

DATE FILED: July 2, 2001

PARENT-CASE:

RELATED APPLICATIONS The instant application is related to "Method for Pre-Processing a Data Collection for Use by a Big-Endian Operating System," Hewlett-Packard Company U.S. application Ser. No. 09/897348, and "Method for Reversing the Bits of a Computer Data Structure," Hewlett-Packard Company U.S. application Ser. No. 09/897346, now U.S. Pat. No. 6,388,586, both of which were filed on the same day as the instant application.

INT-CL-ISSUED: [07] G06F 15/16

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS	G06 F 9/54	20060101
CIPS	G06 F 9/46	20060101
CIPS	G06 F 15/16	20060101
CIPS	G06 F 17/00	20060101
CIPS	G06 F 15/163	20060101
CIPS	G06 F 9/00	20060101

US-CL-ISSUED: 709/246; 717/140
US-CL-CURRENT: 709/246; 717/140

FIELD-OF-CLASSIFICATION-SEARCH: 395/185.01, 395/680, 711/114, 709/246, 709/213, 717/140, 710/8, 707/103, 707/4, 370/474
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5809302</u>	September 1998	Wang et al.	717/117

OTHER PUBLICATIONS

cs.umd.edu/class/spring2003/cmsc311/Notes/BitOp/cast.html.*
eskimo.com/.about.scs/cclass/int/sx4bb.html.*
Kaz Kylheku, "int pointer to int array", Jun. 17, 1997, comp.lang.c.*
Lawrence Kirby, "casting a pointer to an structure to an structure inside first", Dec. 14, 1996, comp.lang.c.*
David Woodman, "summary of obfuscated code request", Dec. 5, 1989, comp.lang.c.*
Jeffrey Turner, "Packing bit field and alignment", Jan. 21, 2001, comp.lang.c.*
Lars Henrik Mathiesen, "Type punning in C", Oct. 26, 1989, comp.lang.c.*

ART-UNIT: 2127

PRIMARY-EXAMINER: An; Meng-Al T.

ASSISTANT-EXAMINER: To; Jennifer

ATTY-AGENT-FIRM: Croft; Thomas M.

ABSTRACT:

Computer data is transferred from a packed to an unpacked data structure in a computer that enforces aligned memory access and for which the associated compiler lacks a compile-time directive to pack data structures. In an exemplary embodiment, the invention is employed in the pre-processing of Advanced Configuration and Power Interface (ACPI) tables stored in little-endian format for use by a big-endian operating system.

9 Claims, 12 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6388586 B1

L8: Entry 2 of 2

File: USPT

May 14, 2002

US-PAT-NO: 6388586

DOCUMENT-IDENTIFIER: US 6388586 B1

TITLE: Method for reversing the bits of a computer data structure

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Matthew	Richardson	TX		
Kota; Raghuram	Dallas	TX		
Makphaibulchoke; Thavatchai	Arlington	TX		
Ramesh; Subramanian	Plano	TX		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Hewlett-Packard Company	Palo Alto	CA			02

APPL-NO: 09/897346 [PALM]

DATE FILED: July 2, 2001

INT-CL-ISSUED: [07] H03M 7/38

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	G06 F 7/76	20060101

US-CL-ISSUED: 341/51; 341/60, 341/65, 341/67, 341/77, 341/78, 708/495, 710/22, 710/52, 710/105, 710/110, 710/311, 710/315, 711/200, 711/220, 712/300, 712/200, 717/11, 717/5

US-CL-CURRENT: 341/51; 341/60, 341/65, 341/67, 341/77, 341/78, 708/495, 710/105, 710/110, 710/22, 710/311, 710/315, 710/52, 711/200, 711/220, 712/300, 712/200, 717/140, 717/174

FIELD-OF-CLASSIFICATION-SEARCH: 341/51, 341/60, 341/65, 341/67, 341/77, 341/78, 708/495, 710/10, 710/22, 710/52, 710/105, 710/110

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5423010</u>	June 1995	Mizukami	341/60
<u>5479166</u>	December 1995	Read et al.	341/65
<u>5512896</u>	April 1996	Read et al.	341/65
<u>5990810</u>	November 1999	Williams	341/51
<u>6005503</u>	December 1999	Burrowws	341/67

ART-UNIT: 2621

PRIMARY-EXAMINER: Tokar; Michael

ASSISTANT-EXAMINER: Mai; Lam T.

ATTY-AGENT-FIRM: Croft; Thomas M.

ABSTRACT:

The bits comprising a computer data structure are reversed rapidly and efficiently using a combination of data partitioning and table look ups. In an exemplary embodiment, the invention is employed in the pre-processing of Advanced Configuration and Power Interface (ACPI) tables stored in little-endian format for use by a big-endian operating system.

12 Claims, 12 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
BYTE	72813
BYTES	73033
ORDER	2387071
ORDERS	78914
(7 AND (BYTE NEAR ORDER)) .USPT.	2
(L7 AND (BYTE NEAR ORDER)) .USPT.	2

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S #	Updt	Database	Query	Time	Comment
<u>S20212</u>	<u>U</u>	USPT	(spanning near index) and (707/\$.ccls.)	2007-08-20 15:40:59	
<u>S20211</u>	<u>U</u>	USPT	spanning near index	2007-08-20 15:40:39	
<u>S20210</u>	<u>U</u>	USPT	non near spanning near index	2007-08-20 15:40:25	
<u>S20209</u>	<u>U</u>	USPT	(6792607.pn.) and bidirectionl\$	2007-08-20 15:37:07	
<u>S20208</u>	<u>U</u>	USPT	6792607.pn.	2007-08-20 15:35:26	
<u>S20207</u>	<u>U</u>	USPT	(6865614.pn. and swap\$ and direct and access) and dafs	2007-08-20 12:42:43	
<u>S20206</u>	<u>U</u>	USPT	(6865614.pn. and swap\$ and direct) and access	2007-08-20 12:42:30	
<u>S20205</u>	<u>U</u>	USPT	(6865614.pn. and swap\$) and direct	2007-08-20 12:42:21	
<u>S20204</u>	<u>U</u>	USPT	(6865614.pn.) and swap\$	2007-08-20 12:36:01	
<u>S20203</u>	<u>U</u>	USPT	and swap\$ (6865614.pn.)	2007-08-20 12:35:50	
<u>S20202</u>	<u>U</u>	USPT	6865614.pn.	2007-08-20 12:35:43	
<u>S20201</u>	<u>U</u>	USPT	((convert\$ or translat\$) near	2007-08-	

		(data near structure) and	20
		(description near table)) and	11:17:10
		(byte near order)	
<u>S20200</u>	<u>U</u>	USPT	((convert\$ or translat\$) near
			2007-08-
			20
			(description near table)
			11:16:35
<u>S20199</u>	<u>U</u>	USPT	(convert\$ or translat\$) near
			2007-08-
			20
			11:15:41
<u>S20198</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD 6685090.PN.	2007-08-
			19
			09:19:04
<u>S20197</u>	<u>U</u>	USPT	(unif\$ near access near
			2007-08-
			interface) and parameter\$
			19
			08:59:02
<u>S20196</u>	<u>U</u>	USPT	(unif\$ near access near
			2007-08-
			interface) and (disparate near
			19
			data)
			08:45:49
<u>S20195</u>	<u>U</u>	USPT	unif\$ near access near interface
			2007-08-
			19
			08:45:19
<u>S20194</u>	<u>U</u>	USPT	((("Line Of Business") or LOB)
			2007-08-
			near system and (jemella)) and
			19
			(catalog\$)
			08:42:25
<u>S20193</u>	<u>U</u>	USPT	((("Line Of Business") or LOB)
			2007-08-
			near system and (jemella)) and
			19
			(disparate near data)
			08:42:01
<u>S20192</u>	<u>U</u>	USPT	((("Line Of Business") or LOB)
			2007-08-
			near system) and (jemella)
			19
			08:41:12
<u>S20191</u>	<u>U</u>	USPT	((("Line Of Business") or LOB)
			2007-08-
			near system) and (disparate
			19
			near data)
			08:40:47
<u>S20190</u>	<u>U</u>	USPT	((("Line Of Business") or LOB)
			2007-08-
			near system) and instantiat\$
			19
			08:39:18
<u>S20189</u>	<u>U</u>	USPT	((("Line Of Business") or LOB)
			2007-08-
			near system
			19
			08:38:52
<u>S20188</u>	<u>U</u>	USPT	("Line Of Business") and
			2007-08-
			(disparate near data)
			19
			08:37:23
<u>S20187</u>	<u>U</u>	USPT	((LOB or "line of business"))
			2007-08-
			and (disparate near data)
			19
			08:33:47
<u>S20186</u>	<u>U</u>	USPT	((LOB or "line of business"))
			2007-08-
			and (diparate near data)
			19
			08:33:34